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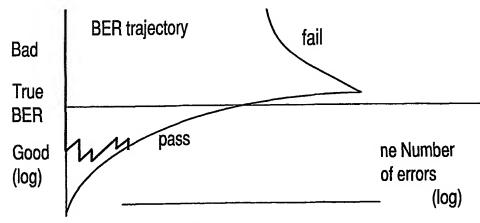
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(54) Title: METHOD FOR TESTING THE ERROR RATIO BER OF A DEVICE ACCORDING TO CONFIDENCE LEVEL, TEST TIME AND SELECTIVITY



(57) Abstract: A method for testing the error ratio BER of a device under test against a specified allowable error ratio comprises the steps: measuring ns samples of the output of the device, thereby detecting ne erroneous samples of these ns samples, defining BER(ne)=ne/ns as the preliminary error ratio and deciding to pass the device, if the preliminary error ratio BER(ne) is smaller than an early pass limit EPL (ne). The early pass limit is constructed by using an empirically or analytically derived distribution for a specific number of devices each having the specified allowable error ratio by separating a specific portion DD of the best devices from the distribution for a specific number of erroneous samples ne and proceeding further with the remaining part of the distribution for an incremented number of erroneous samples.

